THE PROCEEDINGS OF THE PHYSICAL SOCIETY

FROM JANUARY 1941 TO NOVEMBER 1941

VOLUME 53

Published by
THE PHYSICAL SOCIETY
1 Lowther Gardens, Exhibition Road,
London, S.W.7

Printed by
TAYLOR AND FRANCIS, LTD.,
Red Lion Court, Fleet Street, London, E.C.4

12309

PRINTED IN GREAT BRITAIN

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PROCEEDINGS AT THE MEETINGS OF THE PHYSICAL SOCIETY

SESSION 1940–41

3 *January* 1941

At the Polytechnic, Regent Street, London, W. 1, the President, Professor Allan Ferguson, being in the Chair.

The following were elected to Fellowship: Endel Aruja and G. E. F. Fertel, the latter being transferred from Student Membership.

It was announced that Council had elected the following to Student Membership: Alan Wawn Agar, Kathleen Virtue Ballington, Robert Berman, E. G. S. Blower, Frank Keith Charter, Isabel H. Cox, Ernest William Emery, Eileen E. Fuller, Clifford McDonald Hargreaves, Mervyn Guy Newcomen Hine, Charmain Joan Holligan, Ronald Vincent Limbert, Dudley Newton, Douglas Henry Peirson, John Pollard, Harry Pratt, R. F. Y. Randall, William Leslie Roberts, John Michael Robson, H. A. B. Simons, Denis Warwick Stops, S. E. Toulmin, Geoffrey Sherwood Waters, Starkie Whittam, Malcolm Frank Wintle and Peter Osborn Wymer.

A lecture on "The measurement of contact angles" was delivered by Professor Allan Ferguson, M.A., D.Sc., and was followed by an informal discussion.

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9 *January* 1941

A joint meeting with the Faraday Society at the Rembrandt Hotel, London, S.W. 7, Professor E. K. Rideal, F.R.S., President of the Faraday Society, being in the Chair.

A general discussion on "The oil/water interface" was held, the papers read and discussed being:

"Interfacial tension, viscosity and phase boundary potential changes produced by insoluble monolayers at the oil/water interface," by Dr. A. E. ALEXANDER.

"Cell permeability and diffusion across the oil/water interface," by Dr. J. F. DANIELLI.

"The effect of *p*H upon the electrophoretic mobility of emulsions of certain hydrocarbons and aliphatic halides," by Dr. W. DICKINSON.

"The structure and properties of fat particles in human serum," by Dr. A. C. FRAZER.

" Electrophoresis of complex particles as a function of *p*H: Effect of stearic acid in ester particles," by Dr. G. GROWNEY.

" Interfacial activity of branched paraffin-chain salts," by Dr. G. S. HARTLEY.

" Factors in the stability of oil in water emulsions," by Dr. A. KING.

" The stabilization of water in oil emulsions by oil-soluble soaps," by Dr. R. C. PINK.

" Some anomalies between interfacial adsorption and electrophoretic mobility," by Dr. J. POWNEY and Dr. L. J. WOOD.

" The effect of orientation of esters at the water interface on their digestion by pancreatin," by Dr. J. H. SCHULMAN.

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12 *February* 1941

The first meeting of THE COLOUR GROUP. At the Polytechnic, Regent Street, London, W. 1, Dr. W. D. Wright being in the Chair.

A draft constitution of the Colour Group, as drawn up by the Committee of the Group, was discussed and adopted. The Chairman, Honorary Secretary and Committee of the Group for 1941–42 were elected.

The following papers on Colour Tolerance were read and discussed:

" Introductory," by W. D. WRIGHT, D.Sc.

" The commercial aspect," by R. S. WILSON.

" The technical aspect," by H. W. ELLIS, B.Sc., F.I.C.

" The physical aspect," by J. W. PERRY.

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14 *February* 1941

At the Imperial College, London, S.W. 7, the President, Professor Allan Ferguson, being in the Chair.

The following were elected to Fellowship: Keith Alsop, Arthur Charlesby, John Gilbert Daunt, W. E. Trevelyan, Ganesh Krishna Athalye, W. J. G. Beynon, Donald Clive Challis, E. Geoffrey Cullwick, Isidor Fankuchen, Melville Rees Hopkins, Donald Jones and R. Naismith, the first four being transferred from Student Membership.

It was announced that Council had elected the following to Student Membership: Richard Frank Barrow, Francis J. M. Farley, Dennis Hugh Thanes Gant, Derrik Joseph Littler, Alex Renfrew Miller and the Hon. Derek John Henry Mond.

A demonstration of " The application of microfilm to records of scientific literature and a suitable projection apparatus for viewing such records " was given by E. LANCASTER-JONES, B.A., and B. K. JOHNSON, and was followed by an informal discussion.

A lecture on " Anemometry: a critical and historical survey ", was delivered by Professor P. A. SHEPPARD.

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14 *March* 1941

At the Imperial College, London, S.W. 7, the President, Professor Allan Ferguson, being in the Chair.

The following were elected to Fellowship: Edwin Allard, A. Howard Anstis, Charles Norman Davies and Donald William Davison, the first two being transferred from Student Membership.

A lecture on " Gravity meters " was delivered by J. MCGARVA BRUCKSHAW, Ph.D., M.Sc., and was followed by an informal discussion.

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4 *April* 1941

At the Royal Institution, Albemarle Street, London, W. 1, the President, Professor Allan Ferguson, being in the Chair.

The following were elected to Fellowship: Gordon Edward Burleigh, H. Mills Cartwright, Harry Frank Victor Little, Arthur William Middleton and William Henry Drury Yule, the first-named being transferred from Student Membership.

The twenty-fifth Guthrie Lecture was delivered by Professor E. N. DA C. ANDRADE, Ph.D., D.Sc., F.R.S., who took as his subject " The sensitive flame ", and as his title " A problem of Guthrie's time ".

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25 *April* 1941

At the Imperial College, London, S.W. 7, the President, Professor Allan Ferguson, being in the Chair.

A lecture on " The hysteresis cycle and its interpretation " was delivered by Professor L. F. BATES, D.Sc., Ph.D., and was followed by a short discussion.

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30 *April* 1941

The second meeting of THE COLOUR GROUP. At the Royal Photographic Society, Prince's Gate, London, S.W. 7, Dr. W. D. Wright being in the Chair.

A demonstration of samples was given by H. W. ELLIS, B.Sc., F.I.C., in illustration of his paper on "The technical aspect of colour tolerance", read on 12 February.

A paper on "Colour terminology" was read by H. D. MURRAY, M.A., F.I.C., and followed by an informal discussion.

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9 *May* 1941

At the Imperial College, London, S.W. 7, the President, Professor Allan Ferguson, being in the Chair.

William Watson was elected to Fellowship.

A lecture on "Some aspects of the mechanical strength of glass" was delivered by Professor W. E. S. TURNER, D.Sc., F.R.S., and was followed by an informal discussion.

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30 *May* 1941

At the Science Museum, London, S.W. 7, the President, Professor Allan Ferguson, being in the Chair.

The following were elected to Fellowship: Joseph Bor, John Ambrose Cruise, John R. Loofbourow and Robert Sherwood Shankland.

It was announced that Council had elected the following to Student Membership: Dennis Stanley Beard, Robert Ady Crouch, Keith D. Froome, Norman John Harris, Lois Joyce, Graham Wallis Luscombe, Peter Lloyd Morgan, Richard Graham Saunders and Henry Vernon Walters.

The twelfth Thomas Young Oration was delivered by the Astronomer Royal, H. SPENCER JONES, M.A., Sc.D., F.R.S., who took as his subject "The 200-inch telescope".

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25 *June* 1941

The third meeting of THE COLOUR GROUP. At the Great Northern Victoria Hotel, Bradford, Dr. W. D. Wright being in the Chair.

A paper on "Problems of colour mixing in the dyeing industry" was read by J. G. GRUNDY.

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25 *July* 1941

Annual General Meeting. At the Science Museum, London, S.W. 7, the President, Professor Allan Ferguson, being in the Chair.

The minutes of the previous Annual General Meeting were read and accepted as correct.

The reports of the Council and the Honorary Treasurer and the Annual Accounts were adopted.

The Officers and Council and the Auditors for 1941–42 were elected.

Votes of thanks were accorded to the Governing Bodies of The Imperial College and Regent Street Polytechnic and the Director of the Science Museum, to the retiring Officers and Council, and to Professor A. F. C. Pollard for preparing the index slips for the *Proceedings*.

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25 *July* 1941

At the Science Museum, London, S.W. 7, the retiring President, Professor Allan Ferguson, being in the Chair, in the absence of the newly elected President, Dr. C. G. Darwin.

The following were elected to Fellowship: Walter Heitler and Merlin Stephens Jones.

The first Charles Chree Medal and Prize was presented to Professor Sydney Chapman, M.A., D.Sc., F.R.S., in recognition of his work on Geomagnetism and the Upper Atmosphere.

The first Charles Chree Address was delivered by Professor Chapman, who took as his subjects: (i) " Charles Chree and his work on geomagnetism "; (ii) " Geomagnetic time-relationships "; (iii) " The future of world magnetic surveying ".

REPORT OF COUNCIL FOR THE YEAR ENDED 28 FEBRUARY 1941

GENERAL

THE present report is the first one to deal with a whole year's activities of the Society under war-time conditions. Some of the matters covered by this report were dealt with in a special *Notice to Members* issued by the President and Honorary Secretaries in October 1940. In spite of inevitable difficulties and dislocations, the Society has hardly slackened the pace of its work. Indeed, in some directions its activities have increased, as this report will show. Science meetings, though fewer than in former years, have been held and well attended ; the *Proceedings* have been published with only slight and occasional delays ; volume 7 of the *Reports on Progress in Physics* (1940) has been prepared for publication ; and the demand for other publications has been well maintained.

At the end of February 1940 our membership reached its highest figure—nearly 1100 ; it is gratifying to be able to report that, despite the difficult conditions and heavy losses by death, there has been only a slight decline since that date. The membership figures at the end of 1940 are appended to this report.

Amongst the most encouraging features of the year's progress are the marks of appreciation of the Society's work by American physicists. Our Fellowship in the U.S.A. and the number of American subscribers to the *Proceedings* and the *Reports on Progress in Physics* are steadily increasing. The cordial thanks of the Society are due to Dr. Henry A. Barton and Miss Madeline M. Mitchell, Director and Publications Manager respectively, of the American Institute of Physics, for bringing our publications and the advantages of membership more directly to the notice of American physicists ; through their kindness many of our publications are now obtainable at the Institute's office at 175 Fifth Avenue, New York.

The thanks of the Society are accorded to Granville Proby, Esq., executor to the late Mrs. Tyndall, for the gift of copies of a number of works by the late Professor John Tyndall, which have been placed in the Society's library.

The business of the Society is still being conducted at its office at 1 Lowther Gardens, Exhibition Road, London, S.W.7 (Telephone : Kensington 0048), where one of the honorary secretaries is in daily attendance, and where the Library is still housed. Fire-watching duties there are undertaken by members of the Society's secretarial staff. The Council is glad to be able to report that no damage to the Society's office and property has been sustained. The Society's radium, which is not now in use for research purposes, has been placed in a bore-hole for safe keeping. Mrs. M. V. Redmond, Acting Assistant Secretary, received an appointment at the Foreign Office in June 1940, and was succeeded by Mrs. D. M. G. Carrington.*

MEETINGS

It had become apparent that, in the present conditions at least, a change in the character of the Science Meetings was desirable, and there was a greater demand for the exposition and discussion of a single topic than for the reading of several papers on different researches at a single meeting. In the period under review several steps have been taken to meet this demand. Of the nine Science meetings held, only two, both at the Imperial College, were of the usual kind, five papers being read and five demonstrations given. Five meetings were devoted to discussions, either based upon one opening paper or consisting of several papers on selected topics ; namely : *Colour* (a group of three papers) at Birkbeck College ; *The Electrical and General Physical*

* In May 1941, while this report was in preparation, Mrs. Carrington relinquished her appointment, and no successor has been appointed.

Properties of Plastics at a meeting with the Plastics Group of the Society of Chemical Industry at the Polytechnic, Regent Street; *The Liquid State* (a group of five papers) at a meeting with the Cambridge Philosophical Society at the Cavendish Laboratory; *The Teaching of the Fundamentals of Electric and Magnetic Theory* at the Imperial College; and *The Oil/Water Interface* at a meeting with the Faraday Society at the Rembrandt Hotel.

At the remaining meetings the first two of a new series of "lecture-surveys" on chosen subjects were given: on *The Measurement of Contact Angles* by Professor Allan Ferguson at the Polytechnic, Regent Street, and on *Anemometers* by Professor P. A. Sheppard at the Imperial College.

Neither a Guthrie Lecture nor a Thomas Young Oration was delivered in the period under review.

An Annual General Meeting was held at the Imperial College on 7 June 1940 for the presentation and adoption of the Reports of the Council and the Honorary Treasurer and for the re-election of the Officers and Council. No changes of personnel were made on this occasion, provision for such a course having been made at a preceding Extraordinary General Meeting by the suspension of the proviso of Article 55 until the date of the Annual General Meeting in 1941.

PUBLICATIONS

In order that the material quality of the Society's publications should be maintained at a high and uniform standard for as long as possible, a further stock of high-grade paper was purchased, with the authority of the Ministry of Supply Paper Control, during this period, the quality and quantity being the same as those of the stock purchased in 1939.

The *Proceedings* were issued at two-monthly intervals as usual, the size of vol. 52 (1940) being about 18 per cent. less than the average of the two preceding volumes. The outside sales of the *Proceedings* are very satisfactory, particularly of the Part for January 1940, containing the papers read and discussed at the Conference on *Internal Strains in Solids* at the University of Bristol in 1939; additional copies of this Part had to be printed in order to meet the demand.

From the beginning of vol. 53 (1941) the space devoted to advertisements in the *Proceedings* has been doubled; and it is hoped to improve upon this from time to time. That such an increase is possible at the present time is particularly gratifying. As members will have seen in the September (1940) and subsequent Parts, advertisement space is being put at the disposal of The Red Cross and St. John War Organisation and The National Savings Committee.

It has been decided that the scope of the *Proceedings*, beginning with vol. 53 (1941), shall be temporarily widened by the publication of the series of "lecture-surveys" to which reference has been made above. These will deal with selected topics in pure and applied physics of such a nature that they will be complementary to the articles in the *Reports on Progress in Physics*.

Despite the abnormal times, the preparation of Volume 7 of the *Reports on Progress in Physics* has been completed during the period under review, and that there will be a big demand for this new volume is already beyond doubt. The sales of Volume 6 have been excellent. There is still a demand for the whole series of volumes of the *Reports*, especially by libraries; and in order to meet this demand the Society still wishes to repurchase Volumes 1 (1934), 2 (1935) and 4 (1937) from members who are willing to dispose of them.

Beginning with Volume 53 of the *Proceedings* and with Volume 7 of the *Reports on Progress in Physics* a change has been made in the form of bibliographical references in the Society's publications. Particulars of the new form, which is similar to that adopted by the Royal Society, have been set out in the special *Notice to Members* of October 1940, and are also given inside the front cover of each Part of the *Proceedings*.

Beginning with the issues for January 1941, *Science Abstracts, Sections A* and *B*, took new titles, *Physics Abstracts* and *Electrical Engineering Abstracts* respectively, and the page in each section has been enlarged to a more convenient size, which is nearly the same as that in our *Proceedings* and in many other British scientific journals. A change will also be made in the subject index, which will take a more compact and convenient form, based on the Universal Decimal Classification.

DUDDELL MEDAL

The seventeenth Duddell Medal was awarded to Professor Ernest O. Lawrence in recognition of his invention and development of the cyclotron. After the untimely death of the Marquess of Lothian, H.M. Ambassador at Washington, who had kindly promised to present the medal to Professor Lawrence, Mr. Nevile Butler, First Counsellor to the Embassy at Washington, made the presentation at Philadelphia on 27 December 1940, on the occasion of a dinner of the American Physical Society. The Council expresses its cordial thanks to Professor George P. Pegram, Vice-President (now President) and Treasurer of that Society, for so kindly making all the arrangements for the presentation and for ensuring the great success of the function. An account of the medallist and his work was published in the January (1941) issue of our *Proceedings*.

CHARLES CHREE MEDAL AND PRIZE

The Council has awarded the first Charles Chree Medal and Prize to Professor Sydney Chapman for his researches in Geomagnetism and the Upper Atmosphere. Owing to war-time interruptions, the preparation of the medal is still not quite complete, but it is hoped that the presentation will be made, and the first Charles Chree Address delivered, at a meeting in the summer of 1941.

COLOUR GROUP

At the Science meeting of the Society at Birkbeck College in March 1940, at which papers on investigations in the subject of Colour were read and discussed, it was suggested that a discussion group should be formed for the consideration of the various problems relating to Colour. Such a group, entitled the Physical Society Colour Group, has now been formed, with Dr. W. D. Wright as Chairman, Mr. H. D. Murray as Honorary Secretary, and a Committee consisting of Messrs. H. W. Ellis, J. Guild and J. G. Holmes. Membership of the Colour Group is open to all Fellows and Student Members of the Society without additional annual subscription, to members of several other Societies, Institutions and Associations upon payment of an annual subscription of 5*s*., and to other persons upon introduction by a member of the Physical Society or of one of these participating bodies and payment of an annual subscription of 10*s*. 6*d*.

It is proposed that meetings of the Group shall be held quarterly. Papers read and discussed at these meetings may be communicated for publication in the *Proceedings* or in any other appropriate journal. A summary of the papers and a record of the activities of the Colour Group will be prepared annually by the Chairman of the Group and published in the *Proceedings*.

The inaugural meeting was held at the Polytechnic, Regent Street, on 12 February 1941, for the consideration and adoption of a draft Constitution, and for the reading and discussion of four papers on various aspects of *Colour Tolerance* ; about 70 persons attended the meeting and a lively discussion took place.

It would appear that there is a real need for the formation of such Groups to deal with problems of certain branches of pure and applied physics, and that the Colour Group will be the precursor of others to be formed under the aegis of our Society. Indeed, several suggestions for the formation of such Groups, to which careful consideration is being given, have been received by the officers of the Society.

REPRESENTATION OF THE SOCIETY

The representatives of the Physical Society on the *British National Committees* are as follows:

for Physics: Professor A. M. Tyndall, Dr. Ezer Griffiths, Professor N. F. Mott.
for Scientific Radio: Professor L. S. Palmer, Mr. J. A. Ratcliffe.

The representatives of the Society on other Bodies are the same as those given in the Council's Report for 1939–40.

OBITUARY

The Council records with deep regret the deaths of the following Fellows:—Mr. Ralph M. Archer, Mr. Ernest C. Atkinson, Mr. Maurice Blood, Mr. Sydney Evershed, Professor Alfred Fowler, Sir Robert A. Hadfield, Mr. H. W. Heath, Sir Oliver J. Lodge (Past President), Mr. William H. Massey, Professor Gwilym Owen, Dr. Moritz von Rohr (Honorary Fellow of the Optical Society), Mr. James A. Sinclair, Mr. E. Smart, Professor Henry Stroud, Dr. William H. Sumpner, Sir Joseph J. Thomson (Past President), Mr. John A. Tomkins, Mr. John Trotter, Mr. Peter W. Willans.

At the funeral of Sir Joseph Thomson in Westminster Abbey, on 4 September 1940, the Society was represented by the President and members of the Council. The President also represented the Society at the funeral of Sir Oliver Lodge. The Society was represented by Dr. W. Jevons at the funeral of Professor Fowler and by Dr. Ezer Griffiths at that of Sir Robert Hadfield.

MEMBERSHIP ROLL ON 31 DECEMBER 1940

		Honorary Fellows	Honorary Fellows, Optical Society	Ex-officio Fellows	Fellows	Student Members	Total
31 Dec. 1939, Total		11	5	4	960	104	1084
Changes during 1940	Elected				20	39	
	Transferred				6 (+26)	6	
	Deceased		2		17		
	Resigned or lapsed				29 (−51)	20 (−26)	
	Suspended				5		
	Net increase		−2		−25	+13	−14
31 Dec. 1940, Total		11	3	4	935	117	107

REPORT OF THE HONORARY TREASURER FOR THE YEAR ENDED 31 DECEMBER 1940

THE accounts show that in 1940 income diminished by about £910 (17 %) and expenditure by about £1640 (30 %) as compared with the previous year, so that the financial position of the Society is slightly improved. The abnormally large excess of income over expenditure of £891 15*s.* 4*d.* includes, however, two special donations amounting to £700 which appeared in the 1939 balance sheet and are now transferred to the Income and Expenditure account. Without these donations the balance would have shown only a slight increase. It may be pointed out that the absence of a Lecturer's Honorarium in the Expenditure account is due to the fact that provision for the 24th Guthrie Lecture was made in the 1939 accounts and that no Thomas Young Oration was delivered in 1940. The large fall of £378 in income from advertisements is due to the absence of an Exhibition catalogue.

The auditors have suggested that the practice of entering the revaluation of the Society's investments in each year's balance sheet should be discontinued. Accordingly, the values at market price on 31 December 1939, which were relatively low, have been adopted. It may be noted, however, that the market values on 31 December 1940, as stated by the Manager of the Charing Cross Branch of Westminster Bank, are £613 higher.

£150 of 4 % Funding Loan has been sold to provide £165 additional cash in hand for current expenses. At the same time, £136 of the same stock in the Charles Chree Fund was sold to provide about £150 towards the cost of the preparation of the medal, the remaining £50 for this purpose having been very generously given by Miss Jessie Chree.

Three items of office equipment have been purchased from the Herbert Spencer Fund, the balance of which is now £239 7*s.* 6*d.*

The present stock of publications has not been valued, but differs very little in amount from that in recent years.

(Signed) C. C. PATERSON,
Honorary Treasurer.

1 *July* 1941.

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31 DECEMBER 1940

1939 £	Expenditure	£ s. d.	£ s. d.
	To		
221	"Science Abstracts"		95 0 0
	Normal Publications:		
2271	"Proceedings" and Exhibition Catalogue	1385 2 0	
94	Notices	51 13 0	
127	Editorial and General Expenses	107 7 8	
			1544 2 8
834	"Reports on Progress in Physics" (Vol. VI)	674 10 8	
8	Other Publications	—	
			674 10 8
333	Postage on Normal Publications and General Correspondence		285 19 8
43	Expenses at Meetings		26 0 7
21	Periodicals and Library		—
445	Secretarial and Clerical Assistance	480 0 11	
324	Electricity, Labour and Sundries in connection with Exhibition	—	
			480 0 11
15	Summer Visit		—
40	Honoraria to Lecturers		—
319	Sundry Expenses		347 19 0
160	*Balance, being excess of Income over Expenditure, carried forward to Accumulated Fund*		891 15 4
£6255			£4345 8 10

1939 £	Income	£ s. d.	£ s. d.
	By		
	Subscriptions:		
24	Entrance Fees	18 18 0	
1716	Fellows	1655 0 11	
43	Student Members	57 15 6	
113	For "Science Abstracts" and Advance Proofs	105 0 7	
			1836 15 0
	Sales:		
833	Normal Publications	648 19 11	
7	International Conference Reports	4 4 5	
787	"Reports on Progress in Physics"	707 10 0	
			1360 14 4
478	Advertisements in Publications		99 15 4
	Dividends from Investments	361 0 2	
	Less Transfer to Duddell Memorial Fund £14 0 0		
	,, Transfer to Charles Chree Medal and Prize Fund 68 16 0		
		82 16 0	
269			278 4 2
985	Exhibitors' and other payments on account of Exhibition		—
	Transfer from Life Composition Fund of amounts paid by Fellows now deceased		70 0 0
	Anonymous Donations transferred from 1939 Balance Sheet		700 0 0
£6255			£4345 8 10

BALANCE SHEET AS ON 31 DECEMBER 1940

Liabilities	£ s. d.	£ s. d.
Sundry Creditors	80 2 10	
Bank Overdraft	161 17 5	
		242 0 3
Life Compositions:		
As on 31 December 1939	1539 10 0	
Add Payments during year	31 10 0	
	1571 0 0	
Less: Transfer to Income and Expenditure Account	70 0 0	
		1501 0 0
Subscriptions received in advance:		
Members	16 11 10	
Publications	37 8 3	
		54 0 1
Special Funds:		
W. F. Stanley Trust Fund	259 0 0	
Duddell Memorial Trust Fund	365 4 9	
"Progress Reports" Reserve Account	83 1 0	
Herbert Spencer Legacy	239 7 6	
Charles Chree Medal and Prize Fund	2172 5 4	
		3118 18 7
General Fund:		
As on 31 December 1939	3137 5 8	
Add Profit on Sale of Investment	4 5 10	
Add Balance of Income and Expenditure Account	891 15 4	
	4033 6 10	
A. W. Scott Bequest	173 11 11	
		4206 18 9
		£9122 17 8

Assets	£ s. d.	£ s. d.
Investments at Market Value on 31 December 1939:		
W. F. Stanley Trust Fund	259 0 0	
Duddell Memorial Fund	374 0 0	
Charles Chree Medal and Prize Fund	1866 10 0	
Physical Society	5917 10 0	
		8417 0 0
(Market Value on 31 December 1940: £9030 0s. 0d.)		
Dividends due from Investments		37 16 5
Inland Revenue—Income Tax recoverable for 1939 and 1940		98 7 0
Subscriptions due		32 5 6
Sundry Debtors		137 5 1
Stock of Paper and Binding Material		375 17 3
Cash in Hand	10 17 11	
Cash in Post Office Savings Bank Account	13 8 6	
		24 6 5
		£9122 17 8

C. C. PATERSON, *Honorary Treasurer.*

We have audited the above Balance Sheet and have obtained all the information and explanations we have required. We have verified the bank balances and the Investments. In our opinion such Balance Sheet is properly drawn up so as to exhibit a true and correct view of the state of the Society's affairs according to the best of our information and the explanations given to us and as shown by the books of the Society.

Spencer House, South Place, E.C. 2.
1st *July* 1941.

KNOX, CROPPER & Co.,
Chartered Accountants.

LIFE COMPOSITION FUND ON 31 DECEMBER 1940

	£	s.	d.
31 Fellows paid £10	310	0	0
1 Fellow paid £15	15	0	0
14 Fellows paid £21	294	0	0
28 Fellows paid £31 10s.	882	0	0
	£1501	0	0

SPECIAL FUNDS

W. F. STANLEY TRUST FUND

	£	s.	d.		£	s.
Carried to Balance Sheet	259	0	0	£300 Southern Railway Preferred Ordinary Stock	199	0
				£442 Southern Railway Deferred Ordinary Stock	60	0
	£259	0	0		£259	0

DUDDELL MEMORIAL TRUST FUND

Capital

	£	s.	d.		£	s.
Carried to Balance Sheet	374	0	0	£400 3½% War Loan Inscribed "B" Account	£374	0

Revenue

	£	s.	d.		£	s.
Balance on 31 December 1939		5	3	Interest	14	0
Engraving Medal	2	10	0	Balance carried to Balance Sheet	8	15
Honorarium to Medallist	20	0	0			
	£22	15	3		£22	15

A. W. SCOTT BEQUEST

	£	s.	d.		£	s.
Balance carried to Balance Sheet	173	11	11	Balance on 31 December 1939	173	11

"PROGRESS REPORTS" RESERVE ACCOUNT

	£	s.	d.		£	s.
Balance carried to Balance Sheet	83	1	0	Balance on 31 December 1939	83	1

HERBERT SPENCER LEGACY

	£	s.	d.		£	s.
Addressing Machine, Duplicator, and Typewriter Keys	62	18	6	Balance on 31 December 1939	302	6
Balance carried to Balance Sheet	239	7	6			
	£302	6	0		£302	6

CHARLES CHREE MEDAL AND PRIZE FUND

	£	s.	d.		£	s.
Balance carried to Balance Sheet	2065	16	4	£784 4 % Funding Loan	839	10
				£1500 2½ % Conversion Loan	1027	0
				Donation, Miss Chree	50	0
				Cash for Sale of £136 4 % Funding Loan	149	6
	£2065	16	4		£2065	16

Revenue

	£	s.	d.		£	s.
Balance carried to Balance Sheet	106	9	0	Balance on 31 December 1939	37	13
				Interest on Investments	68	16
	£106	9	0		£106	9

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